Coliform Bacteria

| Level Goal |
|---|
| Total Coliform Maximum Contaminant Level |
| Highest No. of Positive |
| Fecal Coliform or E. Coli Total No. of Positive E. Maximum Contaminant Coli or Fecal Coliform Level Samples |
| Total No. of Positive E. Coli or Fecal Coliform Samples |
| Violation |
| Likely Source of Contamination |
| |

Lead and Copper

Action Level Goal (ALG): The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety. Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

| Lead | Copper | Lead and Copper |
|--|---|--|
| 2012 | 2012 | Date Sampled |
| 0 | 1,3 | MCLG |
| 15 | 1.3 | Action Level (AL) 90th Percentile #Sites Over AL |
| 2.36 | 0.439 | 90th Percentile |
| 0 | 0 | #Sites Over AL |
| ppb | ppm | Units |
| Z | z | Violation |
| Corrosion of household plumbing systems; Erosion of natural deposits. | Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems. | Likely Source of Contamination |

Water Quality Test Results

Definitions:

The following tables contain scientific terms and measures, some of which may require explanation

Regulatory compliance with some MCLs are based on running annual average of monthly samples.

Maximum Contaminant Level or MCL: The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal or MCLG: The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety

Maximum residual disinfectant level or MRDL: The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of

microbial contaminants

Regulated Contaminants

| Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits. | Z | ppm | 10 | 10 | 0.465 - 0.465 | 0.465 | 2012 | Nitrate [measured as Nitrogen] |
|--|-----------|-------|-----|-----------------------|-----------------------------|---------------------------|-----------------|--|
| Likely Source of Contamination | Violation | Units | MCL | MCLG | Range of Levels Detected | Highest Level Detected | Collection Date | Inorganic Contaminants |
| By-product of drinking water disinfection. | Z | ppb | 80 | No goal for the total | 33.4 - 33.4 | 33 | 2012 | Total Trihalomethanes (TTHM) |
| By-product of drinking water disinfection. | Z | ppb | 60 | No goal for the total | 43.9 - 43.9 | 44 | 2012 | Haloacetic Acids (HAA5)* |
| Violation Likely Source of Contamination | Violation | Units | MCL | MCLG | Range of Levels Detected | Highest Level Detected | Collection Date | Disinfectants and Disinfection By-Products |

NTMWD Data for Members/Customers 2012 CCR (Wylle WTP) March 22, 2013

| | | | | . Views | fr A | Califor | n Enc | ria - |
|--|----------------------------|--|--|--|---------------------------|--|--|--|
| | 100 | | · Più Mi Ni | or | J. 12 | **-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | 52 AV | |
| 1 7 | | 温量量子 | 捆 双瓜基 | E. Coll Maximum | | of Positive | 1. 25 | |
| Maximum Contaminant Level Goal | | ollform Meximum tembast Lovel | Highest No. of Positive | Contaminant Level | | il or Fecal m Samples | Violation | Likely Source of Contamination |
| 0 | 1 renelt | o conthu camba | 1 pacteria Coliforne | are hacteria t | hat are na | e furally pres | no ent in the er | Naturally present in the environment. nyironment and are used as an indicator that other, potentially harmful, bacteria |
| may be present. Maximum | lesis lound level of 5% | Total Coliform | Jaciena. Conomis | are paciena i | nereje na | | A STATE OF THE STA | |
| | | | | · 斯·斯·斯 | $\mathbb{R}^{(1)}$ | | ennen. | |
| Disinfectants and Disinfection B Products | Date | Highest Level Detected | Range of Levels Detected | ≈ Mcre | MCL | Units | Violation | Likely Source of Contamination |
| Total Haloacetic Acids (HAA5) | 2012 | 21.2 | 9.8-21.2 | No goal for the total | 60 | ppb | no | By-product of drinking water chlorination. |
| Total Trihalomethanes | 2012 | \$3.7 | 28.1-53.7 | No goal for the total | 80 | dqq | no | By-product of drinking water chlorination. |
| NOTE: Not all sample resu | ilts may hav | e been used for o | alculating the High | est Level Dete | cted beca | ause some | results may | be part of an evaluation to determine where compliance sampling should occur |
| in the future. | Coteotion | | Range of Levels | # word | Suct. | Units | . Vio ation | Likely Source of Contamination |
| Inorganio Contaminants | 2012 | Levels lower than | Detected 0-0 | 6 | 6 | ppb | No | Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder; and test addition. |
| Antimony | ļ | detect level | | | | 1 | No | Erosion of natural deposits; runoff from orchards; runoff from glass and electronics production |
| Arsenic | 2012 | 0,0447 | 0.548-1.08 | 0 2 | 10 | ppm | No | wastes. Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits. |
| Barium | 2012 | Levels lower than | 0.03-0.0447 | 4 | 4 | ppb | No | Discharge from metal refineries and coal-burning factories; discharge from electrical, aerospace, and |
| Beryllium . | | detect level | | | | | ļ | defense industries. Corrosion of galvanized pipes; erosion of natural deposits; discharge from metal refineries; runoff |
| Cadmium | 2012 | detect level | 0-0 | 100 | 100 | ppb | No No | from waste batteries and paints. |
| Chromium | 2012 | 0.66 | 1,35-1,58 0,46-0,66 | 4 | 4 | ppm | No | Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and |
| Fluoride | 2012 | Levels lower than | | | | | | aluminum factories. Erosion of natural deposits, discharge from refineries and factories; runoff from landfills, runoff from |
| Mercury | 2012 | detect level | 0-0 | 2 | 2 | ppb | No | cropland. |
| Nitrate (measured as <u>Nitrogen)</u> | 2012 | 0.57 | 057 | 10 | 10. | ppm | No | Runoff from fertilizer use; leaching from septic tanks; sewage; erosion of natural deposits. |
| Nitrate Advisory: Nitrate in | drinking w | ater at levels above because of rain | ve 10 ppm is a hea fall or agricultural a | Ith risk for infa ctivity, If you a | ints of les are caring | s than six n for an infar | nonths of ac at you shoul | te. High nitrate levels in drinking water can cause blue baby syndrome. Nitrate levels d ask advice from your health care provider. |
| Selenium | 2012 | 0.549 | 0-0.549 | 50 | 50 | ppb | No | Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines. |
| Thallium | 2012 | Levels lower than | 0-0 | 0.5 | 2 | ppb | No | Discharge from electronics, glass, and leaching from ore-processing sites; drug factories. |
| SHEET SHEET SERVICES | Collection | delect level Highest Cavel Deposed | : Kange of Layets = | Mold | Jone L | Units | Violetion | Likely Source of Contamination |
| Radioactive Contaminants Beta/photon emitters | 4/29/2010 | 4.4 | 4.4 - 4.4 | 0 | 50 | mrem/yr | No | Decay of natural and man-made deposits. |
| Gross alpha excluding radon and granium | 4/29/2010 | Levels lower than detect level | Q - O | 0 | 15 | pCi/L | No | Erosion of natural deposits. |
| synthetic organic contaminants including pesticides and | Collection | Highest Level | Range of Levels | | | | | Likely Source of Contamination |
| herbicides | 2011 | Levels lower than | Detected: 0 - 0 | MC(8 50 | MCL 50 | ppb | Violation No | Residue of banned herbicide. |
| 2, 4, 5 - TP (Silvex) | -4 | detect level Levels lower than | 0-0 | 70 | 70 | ppb | No | Runoff from herbicide used on row crops. |
| 2,4-D | 2011 | detect level Levels lower than | | 0 | 2 | ppb | No | Runoff from herbicide used on row crops. |
| Alachior Atrazine | 2012 | detect level 0.2 | 0 - 0 0.18-0.2 | 3 | 3 | ppb | No | Runoff from herbicide used on row crops. |
| Benzo (a) pyrene | 2012 | Levels lower than | 0-0 | 0 | 200 | ppt | No | Leaching from linings of water storage tanks and distribution lines. |
| Carbofuran | 2011 | detect level Levels lower than | 0-0 | 40 | 40 | ppb | No | Leaching of soil furnigant used on rice and alfalfa, |
| Chlordane | 2012 | detect level Levels lower than | 0-0 | 0 | 2 | ppb | No | Residue of banned termiticide. |
| Dalapon | 2011 | detect level Levels lower than | 0-0 | 200 | 200 | ppb | No | Runoff from herbicide used on rights of way. |
| Di (2-ethylhexyl) adipate | 2012 | detect level 0.74 | 0 - 0.74 | 400 | 400 | opb | No | Discharge from chemical factories. |
| Di (2-ethylhexyl) phthalate | 2012 | Levels lower than detect level | 0 - 0 | 0 | · 6 | ppb | No | Discharge from rubber and chemical factories. |
| Dibromochloropropane | 2011 | Levels lower than | 0-0 | 0 | 0 | ρpt | No | Runoff / leaching from soil fumigant used on soybeans, cotton, pineapples, and orchards. |
| (DBCP) . Dinoseb | 2011 | detect level Levels lower than | 0-0 | 7 · | 7 | ppb | No | Runoff from herbicide used on soybeans and vegetables. |
| Endrin | 2012 | detect level Levels lower than | 0-0 | 2 | 2 | ppb | No | Residue of banned insecticide. |
| Ethylene dibromide | 2011 | Detect level Levels lower than | 0-0 | 0 | 50 | ppt | No | Discharge from petroleium refineries, |
| Heptachlor | 2012 | detect level Levels lower than | 0-0 | 0 | 400- | ppt | Na | Residue of banned termiticide. |
| | 2012 | detect level Levels lower than | 0-0 | 0 | 200 | ppt | No | Breakdown of heptachlor. |
| Heplachlor epoxide | 2012 | detect level Levels lower than | 0-0 | o o | 1 | ppb | | Discharge from metal refineries and agricultural chemical factories. |
| Hexachlorobenzene | | detect level Levels lower than | 0-0 | 50 | 50 | ppb | | Discharge from chemical factories. |
| Hexachlorocyclopentadiene | 2012 | detect level Levels lower than | | | | | | Runoff / leaching from insecticide used on cattle, lumber, and gardens. |
| Lindane . | 2012 | detect level | 0 - 0 | 200 | 200 | ppt | | Runoff / leaching from insecticide used on fruits, vegetables, affaifa, and livestock. |
| Methoxychlor | 2012 | detect level Levels lower than | 0 - 0 | 40 | 40 | ppb | | Runoff / leaching from insecticide used on apples, potatoes, and tomatoes. |
| Oxamyl [Vydate] | 2011 | detect level | 0 - 0 | 200 | 200 | opb | | Runoff / leadning from insecticide used on applies, polations, and emissions. Discharge from wood preserving factories. |
| Pentachlorophenol | 2012 | detect level | 0-0 | 4 | 1 . | ppb | No No | Discharge from wood preserving ractories. Herbicide runoff. |
| Simazine Toxaphene | 2012 2012 | 0.16 Levels lower than | 0-0.16 | 0 | 3 | ppb : | | Runoff / leaching from insecticide used on cotton and cattle. |
| тихарпене | 2012 | detect level | - 7 | | | | | |

NTMWD Data for Members/Customers 2012 CCR (Wylie WTP) March 22, 2013

| | Collection | Highest Level | Range of Levels | - 10.45 E | MCL | - Units | Violation | 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
|-------------------------------------|---------------------------------------|---|-----------------|---------------|-----|---------|-----------|--|
| Volatile Organic Contaminants | Date 2012 | Levels lower than | Deneglad 0 - 0 | MCLG ⊕ 200 | 200 | ppb | No | Discharge from metal degreasing sites and other factories. |
| 1, 1, 1 - Trichloroethane | · · · · · · · · · · · · · · · · · · · | detect level | | | | | | |
| 1, 1, 2 - Trichloroethane | 2012 | detect level | 0-0 | 3 | . 5 | ррь | No | Discharge from industrial chemical factories. |
| 1, 1 - Dichloroethylene | 2012 | Levels lower than detect level | 0 - 0 | 7 | 7, | ppb | No | Discharge from industrial chemical factories. |
| 1, 2, 4 - Trichlorobenzene | 2012 | Levels lower than detect level | D - O | 70 | 70 | ррь | No | Discharge from textile-finishing factories. |
| 1, 2 - Dichloroethane | 2012 | Levels lower than detect level. | 0-0 | 0 | 5 | ppb | No | Discharge from industrial chemical factories. |
| 1, 2 - Dichloropropane | 2012 | Levels lower than detect level | 0-0 | 0 | 5 | ppb | No | Discharge from industrial chemical factories. |
| Веплепе | 2012 - | Levels lower than detect level | 0 - 0 | 0 | 5 | ppb | No | Discharge from factories; leaching from gas storage tanks and landfills. |
| Carbon Tetrachloride | 2012 | Levels lower than detect level | 0 - 0 | 0 | 5 | 5 | No | Discharge from chemical plants and other industrial activities. |
| Chlorobenzene | 2011 | Levels lower than detect level | 0-0 | 100 | 100 | ppb | No | Discharge from chemical and agricultural chemical factories. |
| Dichloromethane | 2012 | Levels lower than detect level | 0-0 | 0 | 5 | ppb | No | Discharge from pharmaceutical and chemical factories. |
| Ethylbenzene | 2012 | Levels lower than | 0-0 | 0 | 700 | 700 | Na | Discharge from petroleum refineries. |
| Styrene | 2012 | Levels lower than detect level | 0 - 0 | 100 | 100 | ppb | No | Discharge from rubber and plastic factories; leaching from landfills. |
| Tetrachloroethylene | 2012 | Levels lower than detect level | 0-0 | 0 | 5 | ppb | No | Discharge from factories and dry cleaners. |
| Toluene | 2012 | Levels lower than detect level | 0-0 | 1 | 1 | ppm | No | Discharge from petroleum factories. |
| Trichloroethylene | 2012 | Levels lower than | 0 - 0 | 0 | 5 | ppb | No | Discharge from metal degreasing sites and other factories. |
| Vinyl Chloride | 2012 | detect level Levels lower than | 0 - 0 | 0 | 2 | `ppb | No | Leaching from PVC piping; discharge from plastics factories. |
| Хуюлея | 2012 | detect level Levels lower than | 0-0 | 10 | 10 | ppm | No | Discharge from petroleum factories; discharge from chemical factories. |
| cis - 1, 2 - Dichloroethylene | 2012 | detect level Levels lower than detect level | 0 - 0 | 70 | 70 | ppb | No | Discharge from industrial chemical factories. |
| o - Dichlorobenzene | - 2012 | Levels lower than detect level | 0-0 | 600 | 600 | ppb | No | Discharge from industrial chemical factories. |
| p - Dichlorobenzene | 2012 | Levels lower than detect level | 0-0 | 75 | 75 | ppb | No | Discharge from industrial chemical factories. |
| trans - 1, 2 - Dicholoroethylene | 2012 | Levels lower than detect level | 0 - 0 | 100 | 100 | ppb | No | Discharge from industrial chemical factories. |
| | | | 15,454 | F = 5 4 | | a m | oldity | |

(Treatment Technique) 1 NTU Likely Source of Contamination 0.96 NTU Soil runoff Highest single measurement

1 NTU

0.96 NTU

No

Soil runoff.

Lowest monthly percentage (%) meeting limit

0.3 NTU

98.15%

No

Soil runoff.

No

Soil runoff.

No

Soil runoff.

Turbidity has no health effects. However, turbidity can interfere with disinfection and order a medium for microbial drowth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites that can cause symptoms such as nausea, cramps, diarrhea, and associated headsches.

| i | | 664 | | | Max | imum | desidu | al Disini | ectant Level |
|---|---|------|--|------------------------------------|-------------------------|-------------------|--|-----------|--|
| i | Disinfectant Type | Year | Average Level | Minimum Level | Maximum Level | MRDL. | MRDLG | Units | Source of Chemical |
| | Chlorine Residual (Chloramines) | 2012 | 2.99 | 8,9 | 4 | 4.0 | <4.0 | ррт | Disinfectant used to control microbes. |
| ı | Chlorine Dioxide | 2012 | 0 | 0 | 0.15 | 0,8 | 8.0. | | Disinfectant |
| ı | Chlorite | 2012 | 0.48 | 0 | 0.8 | 1.0 | N/A | ppm | Disinfectant |
| | AND THE RESIDENCE OF THE PARTY | | William Co. House, St. | TOTAL CHEST AND THE NAME OF STREET | NAMES OF TAXABLE PARTY. | SANCER CONTRACTOR | AND WATER OF THE PARTY OF THE P | | |

| | | | | To | tal Organic Ca | rbon |
|---|----------------------------|-----------------|--|--------------------------|-----------------------|---|
| ĺ | | Collection Date | Highest Level Detected | Range of Levels Detected | Units | Likely Source of Contamination |
| | Source Water | 2012 | 6.34 | 4.32-6.34 | | Naturally present in the environment. |
| | Drinking Water | 2012 | 4.66 | 3.52-4.66 | ррт | Naturally present in the environment |
| | Removal Ratio | 2012 | 35.0% | 11%-35% | % removal * | N/A |
| | NOTE: Total organic carpon | (TOC) has | no health effects. The disinfectant ca | an combine with TOC to | form disinfection by- | products. Disinfection is necessary to ensure that water does not have unacceptable |

INDUE: Total creamic carbon TLOU has no health effects. The distintectant can combine with TDC-to form distintection by-products of distinfection include trihalomethanes (THMs) and haloacelts caids (HAA) which are reported elsewhere in this report.

*Removal ratio is the percent of TOC removed by the treatment process divided by the percent of TOC required by TCEQ to be removed.

| | | | | | | ead and Copp | |
|--------------|--------------------|---------------|-----------------------------|------|------|--------------|---|
| Contaminants | Collection Date | Highest Level | Range of Levels Detected | MC G | MCL. | Units | Likely Source of Contamination |
| Lead | 2012 | 0.35 | 0,5500-6. | 3600 | 15 | ppm | Corrosion of customer plumbing. Action Level = .015 |
| Copper | 2012 | 0.0307 | 0.0030-0.0307 | 1.3 | 1.3 | ppm | By-product of drinking water disinfection, Action Level = 1.3 |

Copper | 2012 | 0.032 | 0.0330.0007 | 1.3 | 1.3 | ppm | By-product of conking water distinction, Action Level = 1.5

ADDITIONAL HEALTH INFORMATION FOR LEAD: If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The NTMVD is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. When your water has been stiting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.epa.gov/safewater/lead.

| | | | Unfe | gulated Contan | ninants |
|---------------------------|--------------------|----------------------------------|--------------------------|-------------------------|--|
| Contaminants | Collection Date | Highest Level Detected | Range of Levels Detected | Units | Likely Source of Contamination |
| Chloroform | 2012 | 14.7 | 8.8-14.7 | ppb | By-product of drinking water disinfection. |
| Bromoform | 2012 | 1.2 | <1.0-1.2 | | By-product of drinking water disinfection. |
| Bromodichloromethane | 2012 | 17.5 | 11-17.5 | | By-product of drinking water disinfection. |
| Dibromochlosomethene | 2012 | 10.1 | 5.7-10.1 | ppb | By-product of drinking water disinfection. |
| NOTE: Bromoform, chlorofo | rm, dichlon | obromomethane, and dibromochloro | methane are disintectio | n by-products. There is | no maximum contaminant level for these chemicals at the entry point to distribution. |

| | | | econdary and C | ther Constitu | ents Not Regulated |
|---------------------------|--------------------|------------------------|--------------------------|---------------|---|
| Contaminants | Collection Date | Highest Level Detected | Range of Levels Detected | Units | Likely Source of Contamination |
| Bicarbonate | 2011 | 120 | 73 - 120 | ppm | Corrosion of carbonate rocks such as limestone. |
| Calcium | 2012 | 54 | 32-54 | ppm | Abundant naturally occurring element. |
| Chloride | 2012 | 33 | 25-33 | ppm | Abundant naturally occurring element, used in water purification, by-product of oil field activity. |
| Hardness as Ca/Mg | 2012 | 184 | 112-184 | ppm | Naturally occurring calcium and magnesium. |
| Iron | 2012 | 0.07 | <0.05-0.07 | ppm | Erosion of natural deposits; iron or steel water delivery equipment or facilities. |
| Magnesium | 2012 | 4.3 | 3.9-4.3 | ppm | Abundant naturally occurring element. |
| Manganese | 2012 | 0.002 | <0.001-0.002 | ppm | Abundant naturally occurring element. |
| Nickel | 2012 | 0.005 | 0.004-0.005 | ppm | Erosion of natural deposits |
| pH | 2012 | 7.9 | 7.6-7.9 | units | Measure of corrosivity of water. |
| Sodium | 2012 | 39 | 29-39 | ppm | Erosion of natural deposits; by-product of oil field activity. |
| Sulfate | 2012 | 68 | 65-68 | ppm | Naturally occurring: common industrial by-product, by-product of oil field activity. |
| Total Alkalinity as CaCO3 | 2012 | 104 | 74-92 | ppm | Naturally occurring soluble mineral salts |
| Total Dissolved Solids | 2012 | 263 | 240-263 | ppm | Total dissolved mineral constituents in water. |
| Total Hardness as CaCO3 | 2012 | 153 | 95-153 | pom | Naturally occurring calcium. |
| Zinc | 2012 | 0.01 | · <0.01-0.01 | ppm | Moderately abundant naturally occurring element used in the metal industry. |